

INPUT SET: S34265.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

1
2
3 (1) General Information:4
5 (i) APPLICANTS: Miao, Ningning
6 Wang, Monica
7 Mahanthappa, Nagesh K.
8 Jin, Ping
9 Pang, Kevin10
11 (ii) TITLE OF INVENTION: Method of Treating Dopaminergic and
12 GABA-nergic Disorders13
14 (iii) NUMBER OF SEQUENCES: 2215
16 (iv) CORRESPONDENCE ADDRESS:17 (A) ADDRESSEE: FOLEY, HOAG & ELIOT LLP
18 (B) STREET: ONE POST OFFICE SQUARE
19 (C) CITY: Boston
20 (D) STATE: MA
21 (E) COUNTRY: USA
22 (F) ZIP: 0210923
24 (v) COMPUTER READABLE FORM:25 (A) MEDIUM TYPE: Floppy disk
26 (B) COMPUTER: IBM PC compatible
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28 (D) SOFTWARE: ASCII (text)29
30 (vi) CURRENT APPLICATION DATA:31 (A) APPLICATION NUMBER:
32 (B) FILING DATE:
33 (C) CLASSIFICATION:34
35 (vii) PRIOR APPLICATION DATA:36 (A) APPLICATION NUMBER: US 08/900,220
37 (B) FILING DATE: 24-JUL-199738
39 (viii) ATTORNEY/AGENT INFORMATION:40 (A) NAME: Vincent, Matthew P.
41 (B) REGISTRATION NUMBER: 36,709
42 (C) REFERENCE/DOCKET NUMBER: ONV-044.0143
44 (ix) TELECOMMUNICATION INFORMATION:45 (A) TELEPHONE: (617) 832-1000
46 (B) TELEFAX: (617) 832-7000

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/451,939**

DATE: 12/19/1999
TIME: 04:18:14

INPUT SET: S34265.raw

```

47
48
49 (2) INFORMATION FOR SEQ ID NO:1:
50   (i) SEQUENCE CHARACTERISTICS:
51     (A) LENGTH: 1277 base pairs
52     (B) TYPE: nucleic acid
53     (C) STRANDEDNESS: both
54     (D) TOPOLOGY: linear
55
56   (ii) MOLECULE TYPE: cDNA
57
58   (ix) FEATURE:
59     (A) NAME/KEY: CDS
60     (B) LOCATION: 1..1275
61
62   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
63
64 ATG GTC GAA ATG CTG CTG TTG ACA AGA ATT CTC TTG GTG GGC TTC ATC      48
65 Met Val Glu Met Leu Leu Leu Thr Arg Ile Leu Leu Val Gly Phe Ile
66   1           5           10          15
67
68 TGC GCT CTT TTA GTC TCC TCT GGG CTG ACT TGT GGA CCA GGC AGG GGC      96
69 Cys Ala Leu Leu Val Ser Ser Gly Leu Thr Cys Gly Pro Gly Arg Gly
70   20          25          30
71
72 ATT GGA AAA AGG AGG CAC CCC AAA AAG CTG ACC CCG TTA GCC TAT AAG      144
73 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
74   35          40          45
75
76 CAG TTT ATT CCC AAT GTG GCA GAG AAG ACC CTA GGG GCC AGT GGA AGA      192
77 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
78   50          55          60
79
80 TAT GAA GGG AAG ATC ACA AGA AAC TCC GAG AGA TTT AAA GAA CTA ACC      240
81 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
82   65          70          75          80
83
84 CCA AAT TAC AAC CCT GAC ATT ATT TTT AAG GAT GAA GAG AAC ACG GGA      288
85 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
86   85          90          95
87
88 GCT GAC AGA CTG ATG ACT CAG CGC TGC AAG GAC AAG CTG AAT GCC CTG      336
89 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu
90   100         105         110
91
92 GCG ATC TCG GTG ATG AAC CAG TGG CCC GGG GTG AAG CTG CGG GTG ACC      384
93 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr
94   115         120         125
95
96 GAG GGC TGG GAC GAG GAT GGC CAT CAC TCC GAG GAA TCG CTG CAC TAC      432
97 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr
98   130         135         140
99

```

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/451,939**

DATE: 12/19/1999
TIME: 04:18:15

INPUT SET: S34265.raw

100	GAG GGT CGC GCC GTG GAC ATC ACC ACG TCG GAT CGG GAC CGC AGC AAG	480
101	Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Arg Ser Lys	
102	145 150 155 160	
103		
104	TAC GGA ATG CTG GCC CGC CTC GCC GTC GAG GCC GGC TTC GAC TGG GTC	528
105	Tyr Gly Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val	
106	165 170 175	
107		
108	TAC TAC GAG TCC AAG GCG CAC ATC CAC TGC TCC GTC AAA GCA GAA AAC	576
109	Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn	
110	180 185 190	
111		
112	TCA GTG GCA GCG AAA TCA GGA GGC TGC TTC CCT GGC TCA GCC ACA GTG	624
113	Ser Val Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val	
114	195 200 205	
115		
116	CAC CTG GAG CAT GGA GGC ACC AAG CTG GTG AAG GAC CTG AGC CCT GGG	672
117	His Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly	
118	210 215 220	
119		
120	GAC CGC GTG CTG GCT GCT GAC GCG GAC GGC CGG CTG CTC TAC AGT GAC	720
121	Asp Arg Val Leu Ala Ala Asp Ala Asp Gly Arg Leu Leu Tyr Ser Asp	
122	225 230 235 240	
123		
124	TTC CTC ACC TTC CTC GAC CGG ATG GAC AGC TCC CGA AAG CTC TTC TAC	768
125	Phe Leu Thr Phe Leu Asp Arg Met Asp Ser Ser Arg Lys Leu Phe Tyr	
126	245 250 255	
127		
128	GTC ATC GAG ACG CGG CAG CCC CGG GCC CGG CTG CTA CTG ACG GCG GCC	816
129	Val Ile Glu Thr Arg Gln Pro Arg Ala Arg Leu Leu Leu Thr Ala Ala	
130	260 265 270	
131		
132	CAC CTG CTC TTT GTG GCC CCC CAG CAC AAC CAG TCG GAG GCC ACA GGG	864
133	His Leu Leu Phe Val Ala Pro Gln His Asn Gln Ser Glu Ala Thr Gly	
134	275 280 285	
135		
136	TCC ACC AGT GGC CAG GCG CTC TTC GCC AGC AAC GTG AAG CCT GGC CAA	912
137	Ser Thr Ser Gly Gln Ala Leu Phe Ala Ser Asn Val Lys Pro Gly Gln	
138	290 295 300	
139		
140	CGT GTC TAT GTG CTG GGC GAG GGC GGG CAG CAG CTG CTG CCG GCG TCT	960
141	Arg Val Tyr Val Leu Gly Glu Gly Gln Gln Leu Leu Pro Ala Ser	
142	305 310 315 320	
143		
144	GTC CAC AGC GTC TCA TTG CGG GAG GAG GCG TCC GGA GCC TAC GCC CCA	1008
145	Val His Ser Val Ser Leu Arg Glu Ala Ser Gly Ala Tyr Ala Pro	
146	325 330 335	
147		
148	CTC ACC GCC CAG GGC ACC ATC CTC ATC AAC CGG GTG TTG GCC TCC TGC	1056
149	Leu Thr Ala Gln Gly Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys	
150	340 345 350	
151		
152	TAC GCC GTC ATC GAG GAG CAC AGT TGG GCC CAT TGG GCC TTC GCA CCA	1104

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/451,939**

DATE: 12/19/1999
TIME: 04:18:15

INPUT SET: S34265.raw

153	Tyr Ala Val Ile Glu Glu His Ser Trp Ala His Trp Ala Phe Ala Pro	
154	355	360
155		365
156	TTC CGC TTG GCT CAG GGG CTG CTG GCC GCC CTC TGC CCA GAT GGG GCC	1152
157	Phe Arg Leu Ala Gln Gly Leu Leu Ala Ala Leu Cys Pro Asp Gly Ala	
158	370	375
159		380
160	ATC CCT ACT GCC ACC ACC ACT GGC ATC CAT TGG TAC TCA CGG	1200
161	Ile Pro Thr Ala Ala Thr Thr Thr Gly Ile His Trp Tyr Ser Arg	
162	385	390
163	395	400
164	CTC CTC TAC CGC ATC GGC AGC TGG GTG CTG GAT GGT GAC GCG CTG CAT	1248
165	Leu Leu Tyr Arg Ile Gly Ser Trp Val Leu Asp Gly Asp Ala Leu His	
166	405	410
167		415
168	CCG CTG GGC ATG GTG GCA CCG GCC AGC TG	1277
169	Pro Leu Gly Met Val Ala Pro Ala Ser	
170	420	425
171		
172	(2) INFORMATION FOR SEQ ID NO:2:	
173		
174	(i) SEQUENCE CHARACTERISTICS:	
175	(A) LENGTH: 1190 base pairs	
176	(B) TYPE: nucleic acid	
177	(C) STRANDEDNESS: both	
178	(D) TOPOLOGY: linear	
179		
180	(ii) MOLECULE TYPE: cDNA	
181		
182	(ix) FEATURE:	
183	(A) NAME/KEY: CDS	
184	(B) LOCATION: 1..1191	
185		
186	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
187		
188	ATG GCT CTG CCG GCC AGT CTG TTG CCC CTG TGC TGC TTG GCA CTC TTG	48
189	Met Ala Leu Pro Ala Ser Leu Leu Pro Leu Cys Cys Leu Ala Leu Leu	
190	1	5
191		10
192		15
193	GCA CTA TCT GCC CAG AGC TGC GGG CCG GGC CGA GGA CCG GTT GGC CGG	96
194	Ala Leu Ser Ala Gln Ser Cys Gly Pro Gly Arg Gly Pro Val Gly Arg	
195	20	25
196		30
197	CGG CGT TAT GTG CGC AAG CAA CTT GTG CCT CTG CTA TAC AAG CAG TTT	144
198	Arg Arg Tyr Val Arg Lys Gln Leu Val Pro Leu Leu Tyr Lys Gln Phe	
199	35	40
200		45
201	CGG CCC AGT ATG CCC GAG CGG ACC CTG GGC GCG AGT GGG CCA GCG GAG	192
202	Val Pro Ser Met Pro Glu Arg Thr Leu Gly Ala Ser Gly Pro Ala Glu	
203	50	55
204		60
205	GGG AGG GTA ACA AGG GGG TCG GAG CGC TTC CGG GAC CTC GTA CCC AAC	240
	Gly Arg Val Thr Arg Gly Ser Glu Arg Phe Arg Asp Leu Val Pro Asn	

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/451,939**

DATE: 12/19/1999
TIME: 04:18:16

INPUT SET: S34265.raw

206	65	70	75	80
207				
208	TAC AAC CCC GAC ATA ATC TTC AAG GAT GAG GAG AAC AGC AGC GGC GCA GAC			288
209	Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Ser Gly Ala Asp			
210	85	90	95	
211				
212	CGC CTG ATG ACA GAG CGT TGC AAA GAG CGG GTG AAC GCT CTA GCC ATC			336
213	Arg Leu Met Thr Glu Arg Cys Lys Glu Arg Val Asn Ala Leu Ala Ile			
214	100	105	110	
215				
216	GCG GTG ATG AAC ATG TGG CCC GGA GTA CGC CTA CGT GTG ACT GAA GGC			384
217	Ala Val Met Asn Met Trp Pro Gly Val Arg Leu Arg Val Thr Glu Gly			
218	115	120	125	
219				
220	TGG GAC GAG GAC GGC CAC CAC GCA CAG GAT TCA CTC CAC TAC GAA GGC			432
221	Trp Asp Glu Asp Gly His His Ala Gln Asp Ser Leu His Tyr Glu Gly			
222	130	135	140	
223				
224	CGT GCC TTG GAC ATC ACC ACG TCT GAC CGT GAC CGT AAT AAG TAT GGT			480
225	Arg Ala Leu Asp Ile Thr Thr Ser Asp Arg Asp Arg Asn Lys Tyr Gly			
226	145	150	155	160
227				
228	TTG TTG GCG CGC CTA GCT GTG GAA GCC GGA TTC GAC TGG GTC TAC TAC			528
229	Leu Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr			
230	165	170	175	
231				
232	GAG TCC CGC AAC CAC ATC CAC GTA TCG GTC AAA GCT GAT AAC TCA CTG			576
233	Glu Ser Arg Asn His Ile His Val Ser Val Lys Ala Asp Asn Ser Leu			
234	180	185	190	
235				
236	GCG GTC CGA GCC GGA GGC TGC TTT CCG GGA AAT GCC ACG GTG CGC TTG			624
237	Ala Val Arg Ala Gly Gly Cys Phe Pro Gly Asn Ala Thr Val Arg Leu			
238	195	200	205	
239				
240	CGG AGC GGC GAA CGG AAG GGG CTG AGG GAA CTA CAT CGT GGT GAC TGG			672
241	Arg Ser Gly Glu Arg Lys Gly Leu Arg Glu Leu His Arg Gly Asp Trp			
242	210	215	220	
243				
244	GTA CTG GCC GCT GAT GCA GCG GGC CGA GTG GTA CCC ACG CCA GTG CTG			720
245	Val Leu Ala Ala Asp Ala Ala Gly Arg Val Val Pro Thr Pro Val Leu			
246	225	230	235	240
247				
248	CTC TTC CTG GAC CGG GAT CTG CAG CGC CGC GCC TCG TTC GTG GCT GTG			768
249	Leu Phe Leu Asp Arg Asp Leu Gln Arg Arg Ala Ser Phe Val Ala Val			
250	245	250	255	
25				

PAGE: 1

**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/451,939**

DATE: 12/19/1999
TIME: 04:18:16

INPUT SET: S34265.raw

Line	Error	Original Text
------	-------	---------------